

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : **02-296448**  
(43)Date of publication of application : **07.12.1990**

(51)Int.Cl.

**H04M 3/56**

(21)Application number : **01-117920** (71)Applicant : **MITSUBISHI ELECTRIC CORP**  
(22)Date of filing : **11.05.1989** (72)Inventor : **TAKAHASHI MASA**

## (54) LINE EXCHANGE CIRCUIT

### (57)Abstract:

PURPOSE: To allow the subscribers of an unlimited number to participate in a conference independently of the number of inputs of conference trunks when viewing from subscribers by adopting a constitution such that the input of a conference trunk is controlled dynamically with a push-to-talk(PTT) signal.

CONSTITUTION: A voice inputted by the transmitter of a telephone set 11 with PTT is inputted to a subscriber circuit 12 with a PTT detection circuit 12 and fetched in a channel network 13. Moreover, the PTT signal 17 of the telephone set 11 with PTT is inputted to the subscriber circuit 12 with a PTT detection circuit 12. A control circuit 15 with PTT control outputs a voice inputted to the channel network 13 to a conference trunk circuit 14 with a time division switch 13 according to a PTT detection signal 18. Then the conference trunk circuit 14 sums the inputted voice by  $(N-1)$  number of times and outputs the result again to the speech path network 13. Thus, the speech path network 13 sends the voice summed by  $(N-1)$  number of times to the receiver of the PTT telephone set 11 through the subscriber circuit with the PTT detection circuit 12.

